

AUDIO FREQUENCY POWER AMPLIFIER  
LOW SPEED SWITCHING

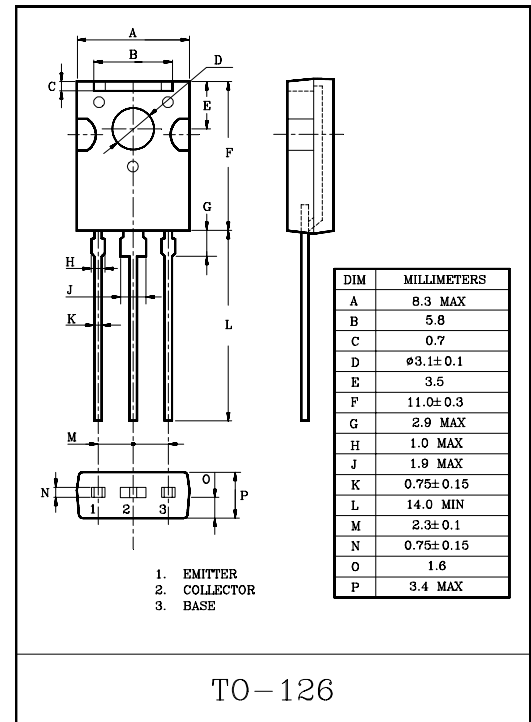
## FEATURES

- Complementary to KTD882.

## MAXIMUM RATINGS (Ta=25℃)

| CHARACTERISTIC                 |                 | SYMBOL    | RATING  | UNIT |
|--------------------------------|-----------------|-----------|---------|------|
| Collector-Base Voltage         |                 | $V_{CBO}$ | -40     | V    |
| Collector-Emitter Voltage      |                 | $V_{CEO}$ | -30     | V    |
| Emitter-Base Voltage           |                 | $V_{EBO}$ | -5      | V    |
| Collector Current              | DC              | $I_C$     | -3      | A    |
|                                | Pulse<br>(Note) |           | -7      |      |
| Base Current (DC)              |                 | $I_B$     | -0.6    | A    |
| Collector Power<br>Dissipation | Ta=25℃          | $P_C$     | 1.5     | W    |
|                                | Tc=25℃          |           | 10      |      |
| Junction Temperature           |                 | $T_j$     | 150     | ℃    |
| Storage Temperature Range      |                 | $T_{stg}$ | -55~150 | ℃    |

Note : Pulse Width  $\leq 10\text{ms}$ , Duty Cycle  $\leq 50\%$ .



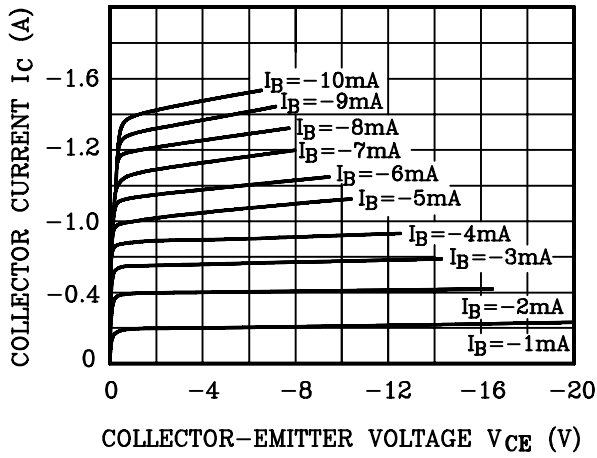
## ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC                         | SYMBOL                | TEST CONDITION                                   | MIN. | TYP. | MAX. | UNIT          |
|--|-----------------------|--|------|------|------|---------------|
| Collector Cut-off Current              | $I_{CBO}$             | $V_{CB} = -30\text{V}, I_E = 0$                  | -    | -    | -1   | $\mu\text{A}$ |
| Emitter-Cut-off Current                | $I_{EBO}$             | $V_{EB} = -3\text{V}, I_C = 0$                   | -    | -    | -1   | $\mu\text{A}$ |
| DC Current Gain *                      | $h_{FE(1)}$           | $V_{CE} = -2\text{V}, I_C = -20\text{mA}$        | 30   | 220  | -    |               |
|  | $h_{FE(2)}$<br>(Note) | $V_{CE} = -2\text{V}, I_C = -1\text{A}$          | 100  | 160  | 400  |               |
| Collector-Emitter Saturation Voltage * | $V_{CE(sat)}$         | $I_C = -2\text{A}, I_B = -0.2\text{A}$           | -    | -0.3 | -0.5 | V             |
| Base-Emitter Saturation Voltage *      | $V_{BE(sat)}$         | $I_C = -2\text{V}, I_B = -0.2\text{A}$           | -    | -1.0 | -2.0 | V             |
| Current Gain Bandwidth Product         | $f_T$                 | $V_{CE} = -5\text{V}, I_C = -0.1\text{A}$        | -    | 80   | -    | MHz           |
| Collector Output Capacitance           | $C_{ob}$              | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$ | -    | 55   | -    | pF            |

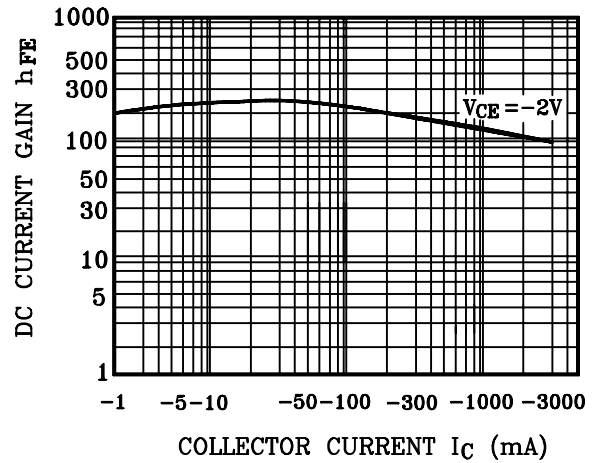
\* Pulse Test : Pulse Width  $\leq 350\mu\text{s}$ , Duty Cycle  $\leq 2\%$  Pulsed

Note:  $h_{FE(2)}$  Classification O:100~200, Y:160~320, GR:200~400

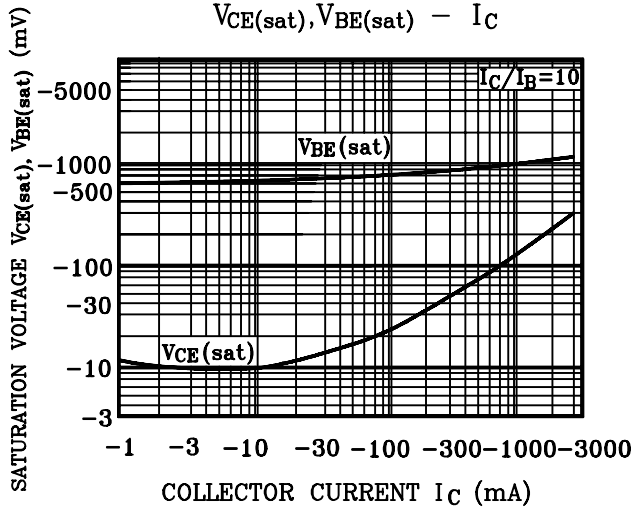
$I_C - V_{CE}$



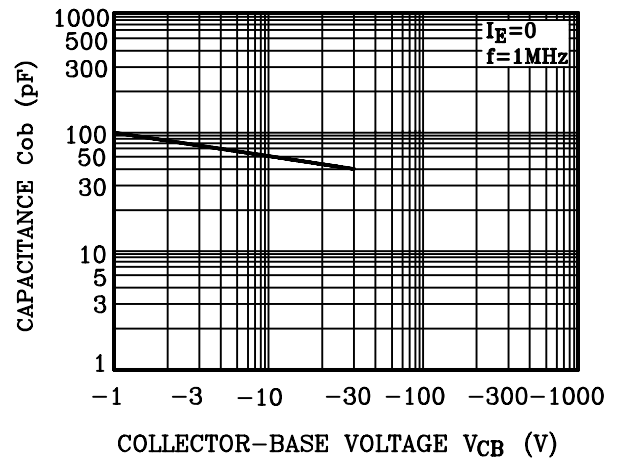
$h_{FE} - I_C$



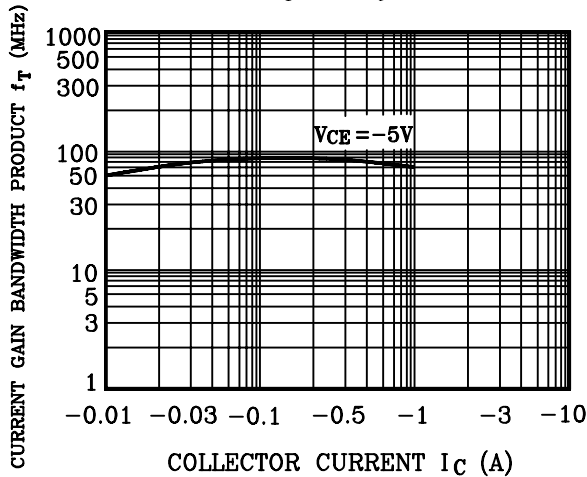
$V_{CE(sat)}, V_{BE(sat)} - I_C$



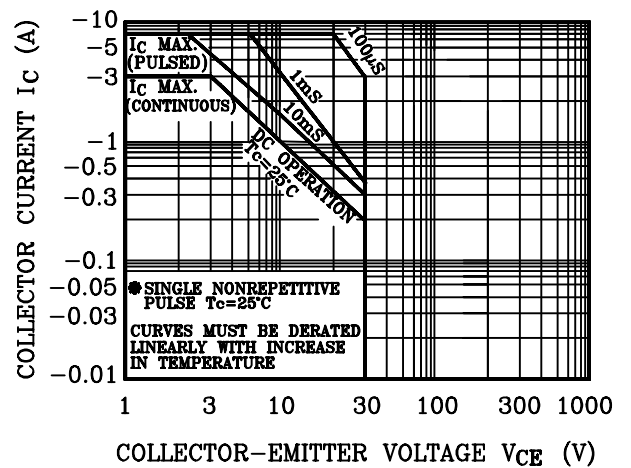
$f_T - I_C$

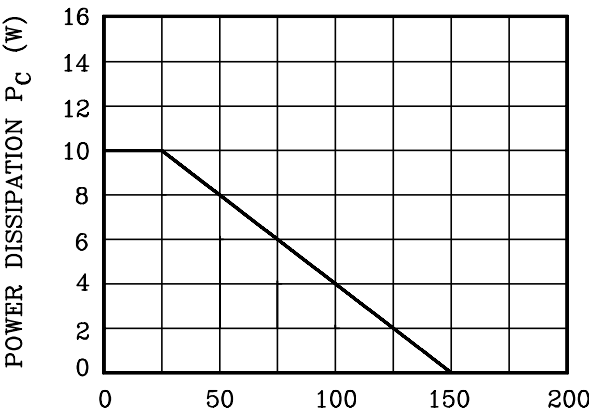
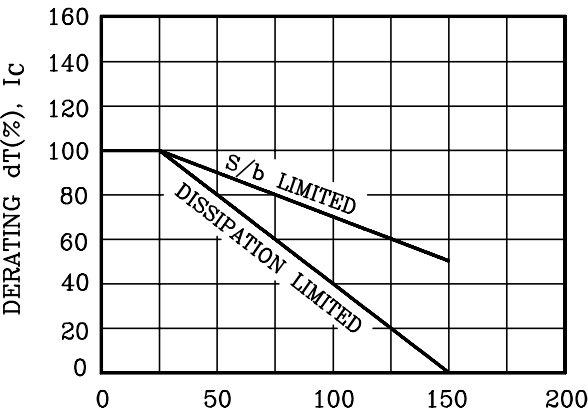


$f_T - I_C$



SAFE OPERATING AREA





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